I hereby certify that this corr is being deposited in the Unit Postal Services as First Class Mail in an envelope address to:

Commissioner for Patents United States Patent and Trademark Office Office of Initial Patent Examination Customer Service Center

Washington, D.C. 2023 ney for Applicants



PATENT

Receipt #3

Attorney Docket No.: DB000575-023

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Keeth, et al.

Examiner:

Not yet assigned

Serial No.:

09/934,795

Art Unit:

2816

Filing Date:

August 22, 2001

Title:

256 MEG DYNAMIC RANDOM ACCESS MEMORY

TRANSMITTAL LETTER

To: Commissioner for Patents

United States Patent and Trademark Office

Office of Initial Patent Examination

Customer Service Center

Washington, DC 20231

Dear Sir:

Enclosed for filing in the above-captioned application, please find the following:

- 1. a Request for Corrected Filing Receipt;
- 2. a copy of the Preliminary Amendment;
- 3. a copy of the original Filing Receipt with the corrections marked in red ink.

Also enclosed is a return postcard. Please date stamp and mail the postcard in order to acknowledge receipt of the above-reference correspondence.

The Commissioner is hereby authorized to charge any underpayment or credit any overpayment to our Deposit Account No. 20-0888. A duplicate copy of this transmittal is enclosed.

Respectfully submitted,

Edward L. Pencoske

Reg. No. 29,688

THORP REED & ARMSTRONG, LLP

One Oxford Centre, 14th Floor Pittsburgh, PA 15219-1425

(412) 394-7789

Dated: 9 Oct, 2001

Attorneys for Applicant



Page 1 of 1

COMMISSIONER FOR PATENTS UNITED STATES PATENT AND TRADEMARK OFFICE

WASHINGTON, D.C. 20231

www.uspto.gov

APPLICATION NUMBER

FILING/RECEIPT DATE

FIRST NAMED APPLICANT

ATTORNEY DOCKET NUMBER

09/934,795

08/22/2001

Brent Keeth

DB000575-023

CONFIRMATION NO. 9430

FORMALITIES LETTER

OC000000006792317

Edward L. Pencoske Throp Reed & Armstrong LLP One Oxford Centre 301 Grant Street Pittsburgh, PA 15219-1425

Date Mailed: 09/26/2001

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given TWO MONTHS from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The oath or declaration is missing. A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(I) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.
- The balance due by applicant is \$ 130.

A copy of this notice MUST be returned with the reply.

Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE

10/15/2001 KZENDIE 00000001 09934795

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COPY

EXPRESS MAIL MAILING LABEL NUMBER: EI859862886US DATE OF DEPOSIT: August 22, 2001

I hereby certify that this paper or fee is being Deposited with the United States Postal Service Under 37 C.F.R. 1.10 on the date indicated above And is addressed to the Assistant Commissioner for Patents, Washington, DC 20231

THORP REED AND ARMSTRONG, LLP
One Oxford Centre

301 Grant Street, 14th Floor

itsburgh, PA 15219-1475

PATENT

Attorney Docket No.: DB000575-023

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):	Keeth, et al.)	Examiner: Not yet assigned Art Unit: Not yet assigned
Serial No.:	Not yet assigned))	
Filed:	22 August 2001	j	

256 MEG DYNAMIC RANDOM ACCESS MEMORY

PRELIMINARY AMENDMENT

Preliminary to the examination of the above-identified application filed herewith, please amend that application as follows.

In the Specification

Entitled:

Page 1, line 2, after the title, insert -- This Application is a divisional application of U. S. Application Serial No. 09/621,560 filed July 21, 2000, which is a divisional application of U.S. Application Serial No. 08/916,692 filed August 22, 1997.--

Page 52, last full paragraph, please amend as follows:

Reference is hereby made to an appendix which contains [nine microfiche having a total of fifty-two frames] eleven microfiche having a total of sixty-six frames. The appendix contains [33] 44 drawings which illustrate substantially the same information as is shown in FIGs. 1-113, but in a more connected format.

A replacement page 52 is enclosed; a copy of page 52 marked to show the changes is also enclosed.

FIG. 108 is reproduction of FIG. 4f illustrating an array slice to be discussed in connection with the all row high test mode;

FIG. 109 is a reproduction of FIG. 6A with the sense amps and the row decoders illustrated for purposes of explaining the all row high test mode;

FIG. 110 identifies various exemplary dimensions for the chip of the present invention;

FIG. 111 illustrates the bonding connections between the chip and the lead frame;

FIG. 112 illustrates a substrate carrying a plurality of chips constructed according to the teachings of the present invention; and

FIG. 113 illustrates the DRAM of the present invention used in a microprocessor based system.

Microfiche Appendix

Reference is hereby made to an appendix which contains [nine microfiche having a total of fifty-two frames] eleven microfiche having a total of sixty-six frames. The appendix contains [33] 44 drawings which illustrate substantially the same information as is shown in FIGs. 1-113, but in a more connected format.

FIG. 108 is reproduction of FIG. 4f illustrating an array slice to be discussed in connection with the all row high test mode;

FIG. 109 is a reproduction of FIG. 6A with the sense amps and the row decoders illustrated for purposes of explaining the all row high test mode;

FIG. 110 identifies various exemplary dimensions for the chip of the present invention;

FIG. 111 illustrates the bonding connections between the chip and the lead frame;

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20

FIG. 112 illustrates a substrate carrying a plurality of chips constructed according to the teachings of the present invention; and

FIG. 113 illustrates the DRAM of the present invention used in a microprocessor based system.

Microfiche Appendix

Reference is hereby made to an appendix which contains eleven microfiche having a total of sixty-six frames. The appendix contains 44 drawings which illustrate substantially the same information as is shown in FIGs. 1-113, but in a more connected format.



In the claims

Please cancel claims 1-173.

STATEMENT REQUESTING DELETION OF INVENTORS

The declaration that is being filed with the instant application is a copy of the declaration that was filed with U.S. Application Serial No. 08/916,692 filed August 22, 1997. As a result of the restriction requirement in U.S. Application Serial No. 08/916,692, the following inventors named in the grandparent application are not inventors of the invention claimed in the instant divisional application:

Raymond J. Beffa Frank K. Ross Larry D. Kinsman Ronald L. Taylor John S. Mullin

Please file the instant application in the names of the remaining inventors (Keeth, Bunker and Derner) in accordance with 37 CFR 1.63 (d).

CHANGE OF ADDRESS

Please note that the undersigned attorney's address has changed since the parent application was filed and that the undersigned attorney's address is correctly noted on form PTO/SB/05 filed herewith, and is correctly noted below.

It is respectfully requested that the instant application, covering claims 174-175, receive an early office action on the merits.

Respectfully submitted

Edward L. Pencoske Reg. No. 29,688

Thorp Reed & Armstrong, LLP

One Oxford Centre

301 Grant Street, 14th Floor

Pittsburgh, PA 15219-1425

(412) 394-7789

Attorneys for Applicants

Dated: 22 August 2001

The invention relates to a detector circuit (100) for detecting short-lasting voltage pulses (spikes) in a power supply voltage (VDD). An integrator (INT) forms the average value (VDD_AV) of the power supply voltage (VDD) and a corresponding energy is stored in a first memory (MEM1). A comparator (COMP) compares the power supply voltage (VDD) with a predetermined voltage interval ([Vref1, Vref2]) and closes a switch (S) when the power supply voltage is outside this interval. The energy from the first memory (MEM1) then flows into a second memory (MEM2) via the switch (S) and a delay circuit (DELAY). When the energy in the second memory (MEM2) exceeds a threshold value, an output stage (OUT) is thereby activated, whose output supplies a signal (SPIKE_DET) indicating a voltage spike.

Fig. 1



#4

PATENT

Attorney Docket No.: DB000575-023

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Keeth, et al.)		
) Examiner:	Not yet assigned	
Serial No.:	09/934,795)		
) Art Unit:	2816	
Filing Date:	August 22, 2001)	f.	
)		
Title:	256 MEG DYNAMIC RANDOM ACCESS MEMORY			

TRANSMITTAL LETTER FOR PETITION IN RESPONSE TO NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

To: Assistant Commissioner for Patents

Box MISSING PARTS Washington, D.C. 20231

Dear Sir:

Enclosed herewith are the following:

- 1. a Petition In Response To Notice To File Missing Parts Of Nonprovisional Application;
- 2. a copy of the original Declaration, submitted as Exhibit A;
- 3. a copy of the filed Request to Delete Inventors as Exhibit B;
- 4. a copy of the Return Receipt Postcard showing the filing of the Declaration as Exhibit C;
- 5. a copy of the Utility Patent Application Transmittal as Exhibit D;
- 6. a check in the amount of \$130 as the requisite fee under 37 C.F.R. 1.117(h) for filing said Petition.

The Commissioner is hereby authorized to charge any underpayment or credit any overpayment to our Deposit Account No. 20-0888. A copy of this transmittal letter is enclosed.

A return postcard is also enclosed. Please date stamp and mail the postcard in order to acknowledge receipt of this correspondence.

Dated: 9 Oct, 2001

Respectfully submitted,

Edward L. Pencoske Reg. No. 29,688
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